

Author Index

	PAGE		PAGE
ANAS, A. . . . .	699	Bianchi, F. A. . . . .	23
Abdul Rahim, A. . . . .	19	Bid, N. N. . . . .	434
Abraham, V. . . . .	538	Bilgrami, K. S. . . . .	487
Acharya, B. . . . .	542	Bordoloi, K. . . . .	252
Achinarayana, D. . . . .	532	Bose, B. C. . . . .	635
Agate, A. D. . . . .	81	Bose, S. . . . .	635
Agnihotrudu, V. . . . .	192, 538	Brahmaji Rao, S. . . . .	245
Agrawal, D. P. . . . .	42, 394		
Agrawal, V. . . . .	641	CAMERON, A. R. . . . .	172, 425
Anand, S. . . . .	45, 581	Chakraborty, K. L. . . . .	83
Ananda Rao, T. . . . .	589	Chakravarty, D. . . . .	177
Ananthakrishnan, R. . . . .	272, 421	Chanda, M. . . . .	508
Anantharaman, T. R. . . . .	607	Chandola, R. P. . . . .	537
Anderson, C. R. . . . .	579	Chandra, A. . . . .	459
Anjaneyulu, V. . . . .	608	Chandra, S. . . . .	56, 257, 565
Appa Rao, Th. . . . .	695	Chandra, V. . . . .	618
Appaswamy Rao, M. . . . .	316, 584	Chandrasekhar, V. . . . .	479, 609
Arumugam, N. . . . .	429	Chandravadana, P. . . . .	185
Arunachalam, S. . . . .	180	Chatterji, U. N. . . . .	612
Asundi, R. K. . . . .	550	Chenulu, V. V. . . . .	321
Aswathanarayana, G. K. . . . .	562	Chetal, A. R. . . . .	556
Aswathanarayana, N. V. . . . .	81	Chibber, S. S. . . . .	238
Aswathanarayana, T. M. . . . .	405	Chinnappa, C. C. . . . .	90, 668
Ayyangar, K. M. M. S. . . . .	281, 606	Chowdhury, S. R. . . . .	212
		Chudgar, R. J. . . . .	560
Basu, S. K. . . . .	172, 425		
Begyaraj, J. . . . .	458	DALEIR SINGH . . . . .	696
Bakore, G. V. . . . .	349	Darshan Kumari . . . . .	690
Baksi, S. K. . . . .	351	Das, A. K. . . . .	179
Banerjee, B. . . . .	435	Das, B. P. . . . .	18
Banerjee, J. . . . .	14	Das, J. M. . . . .	374
Banerjee, K. . . . .	461	Das, V. S. R. . . . .	28, 94, 156
Banerji, A. . . . .	431	Dash, K. C. . . . .	245
Bangarayya, M. . . . .	617	Dass, A. S. . . . .	483
Basu, S. K. . . . .	438	Dayal, R. . . . .	182, 459
Basu, U. P. . . . .	18	Deorani, V. P. S. . . . .	410
Baxi, D. (Miss) . . . . .	612	Deoras, P. J. . . . .	348, 539
Bennet, S. S. R. . . . .	411	Desai, B. M. . . . .	244
Beri, R. M. . . . .	48	Desai, B. N. . . . .	657
Bhagavantam, S. . . . .	72	Desai, M. N. . . . .	244, 312
Bhardwaj, D. K. . . . .	507	Deshmukh, G. S. . . . .	433, 504
Bhargava, S. N. . . . .	465	Deshpande, A. L. . . . .	89
Bhat, J. V. . . . .	81	Deshpande, K. B. . . . .	222
Bhatia, V. K. . . . .	634	Deshpande, K. S. . . . .	222
Bhatnagar, M. P. . . . .	537	Deshpande, V. T. . . . .	633
Bhatnagar, S. P. . . . .	28	Devanathan, V. C. . . . .	429
Bhatnagar, V. M. . . . .	285	Devendran, V. P. . . . .	145
Bhattacharya, N. . . . .	180	Dev Rao . . . . .	26
Bhoj Raj . . . . .	319	Dhingra, K. C. . . . .	504

	PAGE		PAGE
Dhulkhed, M. H. . . . .	95	Jain, M. K. . . . .	406, 505
Dias, F. F. . . . .	81	Jain, S. N. . . . .	537
Dighe, V. S. (Miss) . . . .	508	Jalan, S. . . . .	527
Doshi, G. R. . . . .	478	Jambunathan, M. V. . . . .	78, 311
D'Souza, M. E. A. . . . .	584	Janardhanan, K. K. . . . .	156
Dube, H. C. . . . .	487	Jayaraman, R. . . . .	121
Dutt, S. . . . .	695	Jayaramireddy, A. . . . .	218
Dutt, S. C. . . . .	49	Jindal, H. L. . . . .	284
Dutta, S. P. . . . .	18, 177	Jnanananda, S. . . . .	281, 427, 503, 606
EAGER, R. L. . . . .	15, 147, 691	Johri, K. N. . . . .	78, 562, 661
Enyi, B. A. C. . . . .	249	Joshi, M. V. . . . .	665
		Juyal, D. P. . . . .	175
FULORIA, R. C. . . . .	535	KABRA, S. C. . . . .	639
GADRE, W. Y. . . . .	89	Kalani, I. K. (Miss) . . . .	322
Ganapati, P. N. . . . .	631	Kanakaraj, S. R. . . . .	316
Ganesan, R. . . . .	429	Kanekar, C. R. . . . .	555
Gangadharan, E. V. . . . .	286	Kafi, A. . . . .	515
Ganguly, S. . . . .	482	Kar, A. B. . . . .	212
Gaur, Y. D. . . . .	21	Karnik, M. G. . . . .	48
Ghaffar, A. . . . .	515	Kasinathan, S. . . . .	211, 460, 583
Ghosh, A. K. . . . .	465	Katyal, M. . . . .	17, 456
Ghosh, S. S. . . . .	508	Kaul, K. N. . . . .	256
Gnanamuthu, C. P. . . . .	53	Kaur, J. . . . .	295
Godward, M. B. E. . . . .	699	Khajuria, H. . . . .	640
Gopalakrishnan, R. . . . .	128, 698	Khan, A. A. . . . .	633
Goswami, A. M. . . . .	434	Khan, E. . . . .	667
Govil, G. . . . .	116	Khan, K. N. . . . .	340
Govinda Rajulu, B. V. . . . .	252	Khan, M. . . . .	293
Govindaswamy, T. S. . . . .	499	Khare, P. (Miss) . . . . .	647
Govindu, H. C. . . . .	382, 513	Khetan, S. . . . .	116
Goyal, S. K. . . . .	152	Khetrapal, C. L. . . . .	116
Gupta, A. K. D. . . . .	54	Khoshoo, T. N. . . . .	370
Gupta, B. D. . . . .	693	Kidwai, P. . . . .	260
Gupta, B. P. . . . .	456	Kirpal Singh . . . . .	78, 661
Gupta, M. P. . . . .	291	Knypl, J. S. . . . .	451
Gupta, P. K. . . . .	190	Kotasthane, W. V. . . . .	224, 462
Gupta, R. N. . . . .	319	Koul, A. K. . . . .	590
Gupta, S. R. . . . .	634	Krishnaiah, K. S. R. . . . .	561
Gupta, U. C. . . . .	504	Krishnamachari, S. L. N. G. . . . .	75, 655
Gupta, V. J. . . . .	216, 217, 315, 439, 536	Krishnamurthy, M. . . . .	428
Guruprasad, S. . . . .	562	Krishnamurthy, V. . . . .	16
HANDA, B. K. . . . .	313	Krishnamurti, M. . . . .	210, 479, 559, 609
Harandh, C. . . . .	343	Krishnamurthy, H. G. . . . .	681
Honwad, V. K. . . . .	534	Krishnan, M. S. . . . .	137
Husain, A. . . . .	156	Krishnan, N. . . . .	120
INDIRA, P. U. (Miss) . . . .	601	Krishnan, V. . . . .	634
Iyer, C. P. A. . . . .	411	Krishna Prasad, N. S. . . . .	428
Iyer, R. H. N. . . . .	209	Krishna Rao, J. S. R. . . . .	149
Ittyerah, P. I. . . . .	116, 455	Kumar, N. . . . .	427
JAGANNATH RAO, V. . . . .	292	Kumar, R. . . . .	214
Jain, J. L. . . . .	611	Kumar, S. . . . .	488
		Kumar, V. . . . .	255, 427
		Kum Kum Roy (Miss) . . . .	384
		Kurmaiah, N. . . . .	80, 148
		Kurup, P. A. . . . .	663

PAGE		PAGE		PAGE
505	Kusumgar, S. ..	42, 394	Nagarajan, S. ..	79, 245
537	Kuthalingam, M. D. K. ..	95	Nagarajan, V. ..	113
527			Nageswara Rao, D. ..	432
311	LAGU, A. V. ..	553	Nag Raj, T. R. ..	618
156	Lahiri, D. B. ..	208	Naik, R. C. ..	550
121	Lakhanpal, R. N. ..	666	Nair, A. G. R. ..	79, 246
218	Lakhdive, B. A. ..	513	Nair, P. K. K. ..	256, 381
284	Lakhera, J. P. ..	249	Nair, P. S. ..	350
606	Lakshminarayana, V. ..	281, 427, 606	Naithani, S. P. ..	536
661	Lal, D. ..	394	Narasimhachari, N. ..	309
665	Leelamani, E. C. ..	146	Narasimham, N. A. ..	75, 454
175	Lele, S. ..	607	Narayana, L. L. ..	92, 383
	Lele, S. V. ..	553	Narayanan, U. H. ..	283
639	Lindell, S. S. ..	142	Narayan Rao, P. ..	292
322			Natarajan, A. T. ..	58
316	MAHADEVAN, A. ..	566	Natarajan, M. ..	183
555	Mahadevan, Y. ..	283	Nath, G. ..	208
515	Mahadevappa, D. S. ..	15, 147, 530, 691	Nayar, K. K. ..	476
212	Mahajan, V. D. ..	82	Neelakantan, S. ..	157, 507
48	Mahavir Singh ..	75, 655		
583	Maiti, P. C. ..	179	OBEROI, R. S. ..	372
456	Majumdar, P. K. ..	434		
256	Malathy Devi, V. (Miss) ..	144, 373	PADHYA, A. C. ..	224, 462
295	Mamgain, V. D. ..	119	Padmanabhan, D. ..	463
640	Mande, C. ..	556	Padmanabhan, S. Y. ..	307
633	Mangalangi, N. K. ..	278	Padmanabha Rao, T. V. ..	16
667	Mani, A. ..	39	Pal, M. ..	370
340	Manju Malaviya ..	642	Pal, N. L. ..	617
293	Maqbool Begum ..	355	Palani, S. ..	562
647	Mary Selvam, M. ..	272	Pandalai, K. M. ..	685
116	Mathur, R. S. ..	154	Pande, B. P. ..	378, 586
116	Mathur, S. M. ..	84, 664	Pande, I. C. ..	214, 315
370	Mathur, V. K. ..	667	Pandey, D. C. ..	124
260	Mehrotra, R. S. ..	353	Pandey, D. K. ..	223
661	Menon, K. K. ..	693	Panduranga Rao, V. ..	80, 148
451	Menon, V. K. ..	459	Pandya, M. K. ..	287
462	Menon, Vimala, K. ..	642	Panicker, M. K. R. ..	562
590	Mishra, D. ..	611	Panicker, T. K. B. ..	614
561	Mitra, A. K. ..	177	Panigrahi, G. ..	127
555	Moghe, V. P. ..	349	Pant, D. D. ..	588
428	Mohan, R. ..	372	Pant, R. ..	212
16	Mohan, R. N. ..	380	Parekh, A. V. ..	247
509	Mukerjee, S. K. ..	690	Parthasaradhi, K. ..	427
481	Mukherjee, A. K. ..	589	Parthasarathy, M. R. ..	115
37	Mukherjee, K. L. ..	142	Parthasarathy, R. ..	628
20	Mukherjee, S. K. ..	434	Parvatheswara Rao, V. ..	563
34	Mukherjee, S. L. ..	508	Patel, H. B. ..	689
28	Murthy, K. V. K. ..	94	Patel, M. K. ..	224, 436, 462
49	Murti, V. V. S. ..	398, 431	Patel, R. J. ..	644
27	Murty, C. R. K. ..	113, 244, 343, 607, 660	Patnaik, S. N. ..	127
14	Murty, G. V. L. N. ..	561	Patwardhan, P. G. ..	88, 89
68			Paul Jayaraj, A. ..	45
27	NADHACHARY, G. V. ..	55	Periasamy, K. ..	57
34	Nadkarni, J. S. ..	314	Perur, N. G. ..	46, 347
48	Nagabhushanam, R. ..	22	Phatak, H. C. ..	321, 645
33	Nagarajan, M. ..	685	Pillai, N. G. ..	636



PAGE		PAGE		PAGE
509	Seth, P. K.	488	Srinivasan, K. S.	485
042	Sethi, R. S.	284	Srinivasan, R.	449, 529
534	Sethuraj, M. R.	615	Srivastava, G. N.	514
110	Shah, B. S.	146	Srivastava, H. C.	536
383	Shah, G. Z.	209	Srivastava, M. P.	354, 465
559	Shah, H. L.	564	Srivastava, P. N.	320, 567
218	Shah, J. J.	155	Srivastava, R. P.	150, 184
3, 94	Shah, S. C.	215	Srivastava, S. C.	212
158	Shah, S. K.	377	Srivastava, S. C.	220
93	Shambulingappa, K. G.	670	Stubbings, H. C.	583
9	Shankaran, P. R.	210, 559	Subba Raju, G.	532
630	Shanmugavelu, K. G.	186	Subbaramayya, I.	375
407	Shanta, P.	636	Subba Rao, N. V.	403, 581
533	Shariff, A.	252	Subrahmanyam, S. V.	558
175	Sharma, M. R.	699	Subramaniam, G. B. V.	344
146	Sharma, N. C.	285	Subramaniam, M. K.	278
188	Sharma, R. P.	58, 524	Subramanian, S.	86
215	Sharma, S. D.	128	Subramanyam, S.	278
190	Shashidhar, M. A.	479	Subramony, N.	350, 646
539	Shastri, S. V. S.	55, 128	Sudarsana Rao, K.	403, 533
222	Sheila Gopal, Ku.	454	Sudarshan, E. C. G.	202
474	Shenoy, S. B. R.	283	Sugathan, K. K.	118
536	Shivanandappa, A.	513	Sundaram, S.	662
318	Shivashankara Sastry, K. S.	382	Sundar Raj, K. P.	155
375	Shrivastava, U. S.	89	Sundara Rajulu, G.	408
612	Shukla, R. C.	406	Sur, B. K.	285
282	Sidhu, N. P. S.	504	Suryanarayana, K.	610
309	Silas, E. C.	51, 387	Suryanarayana Rao, K.	479
660	Singh, A. P.	190	Suthar, G. K.	508
316	Singh, D. N.	153	Swaminathan, M. S.	108
579	Singh, D. V.	219	Swamy, C. S.	505
54	Singh, G.	215	Syamasunder, K.	18
9	Singh, H.	159, 344		
293	Singh, K.	582	TALAGERI, V. R.	314
668	Singh, K. R. P.	480, 579	Tandon, K. K.	640
537	Singh, M.	45, 581	Tandon, R. N.	25, 56, 257, 354, 465, 565
407	Singh, R. P.	17, 456, 611	Taron, P. B.	83
181	Singhal, O. P.	455	Tewari, B. S.	150
19	Sinha, R. N.	340	Thaiyalanayaki, M. (Mrs.)	428
59	Sirsi, M.	458	Thakral, B. M.	183
22	Sitakara Rao, V.	247	Thattey, A. S.	344
21	Sivaramakrishnan, R.	404	Thirumalachar, M. J.	436
26	Sivaraman, K. R.	283	Thosar, B. V.	453, 524
48	Smith, I. M.	142	Thyagaraja Rao, S.	628
37	Smith, R. L.	46, 347	Tiagi, B.	671
39	Sohi, H. S.	488	Tiku, S. N.	294
38	Somasekhara, S.	508	Tiruvenganna Rao, P.	660
39	Sood, B. S.	45, 372, 581	Tonapi, G. T.	665
33	Sreedharan, C. R.	39	Tripathi, R. C.	154
5	Sreenivasan, M. S.	668	Trivedi, K. N.	560
4	Sridhar, M. K. C.	602	Trivedi, M. L.	219
9	Srimannarayana, G.	581		
0	Srinath, K. V.	295, 514, 668	UDGAONKAR, B. M.	4
0	Srinivasachary, G.	149	Usha, S. V.	511
1	Srinivasagam, R. T.	576	VAIDYA, S. M.	261
	Srinivasan, B.	211, 583	Vaidya, P. C.	175



	PAGE		PAGE
Vanamala Naidu, K. . . . .	151	Verghese, J. . . . .	118
Varadachari, V. V. R. . . . .	532	Verma, H. M. . . . .	118
Ved Prakash . . . . .	61	Verma, K. K. . . . .	182, 289
Velankar, N. K. . . . .	586	Vidyasagar, K. . . . .	405
Venkatachalapathi, V. . . . .	12, 687	Vig, B. K. . . . .	25, 187
Venkatapathi Raju, B. B. . . . .	503	Vijayaraghavan, R. . . . .	170, 305
Venkataraman, B. . . . .	111	Vijayavargiya, R. . . . .	635
Venkataraman, G. S. . . . .	152	Vishveshwara, S. . . . .	90
Venkata Ramiah, K. . . . .	12, 687	Vizia, N. C. . . . .	607
Venkata Rao, A. . . . .	60	Vohra, J. N. . . . .	323
Venkata Reddy, D. . . . .	245		
Venkatasetty, H. V. . . . .	555	WADHI, S. R. . . . .	225
Venkatasubramanian, N. . . . .	662	Wadhwa, B. M. . . . .	323
Venkatesh, V. . . . .	502	Wakhaloo, S. N. . . . .	377
Venkateswara Rao, V. . . . .	114	Wali, M. K. . . . .	294
Venkateswarlu, K. . . . .	144, 373	Wiebe, H. H. . . . .	46, 347
Venkateswarlu, P. . . . .	114	Wisniewska, J. M. . . . .	451
Venkateswarlu, V. . . . .	16		

## Subject Index

	PAGE		PAGE
ABSOLUTE Photoelectric Cross-sections of 145, 280 and 325 KeV Gamma-Rays . . . . .	427	Amino-Acid Composition of <i>Cladonia rangiferina</i> , <i>C. gracilis</i> and <i>Lobaria isidiosa</i> . . . . .	345
Absorption and Fluorescence Spectra of Praseodymium Doped KCl Single Crystal . . . . .	550	— — — of Flowers of Papaya . . . . .	211
Acid-Fast Micro-organism from Human Lepromatus Leprosy . . . . .	314	Analysis of Limestone and Dolomite, a Rapid Method for . . . . .	562
— Mucopolysaccharide in the Cuticle of Scorpion . . . . .	120	<i>Antirrhinum majus</i> , In vitro Pollination in . . . . .	511
Activity Coefficients of Beryllium Chloride . . . . .	284	Arid Zone Plants, Eco-Physiological Studies on . . . . .	612
Acyl Semicarbazide, Use of, for Aldehyde Synthesis . . . . .	18	<i>Artemisia sacrorum</i> , Chemical Investigation of . . . . .	609
Adrenalectomy, Inhibition of Ovulation by, in Skipper Frog . . . . .	316	<i>Athalamia</i> Falc. Genus in South India . . . . .	220
<i>Aeromonas punctata</i> in <i>Puntius</i> Species . . . . .	81	Award of Research Degrees . . . . .	34, 67, 100, 133, 230, 267, 301, 330, 390, 418, 470, 597
African Tetraploid Species of <i>Oryza</i> . . . . .	698		
<i>Agassizocrinus</i> from the Syringothyris Limestone of Kashmir . . . . .	216	BACTERIAL Leaf-Spot Disease of <i>Bauhinia racemosa</i> . . . . .	224
Alkaline Phosphatase Activity of Rat Tissues, Effect of Mercaptopurine and Urethane . . . . .	635	Bacterization of Rice and Okra Seeds with <i>Azotobacter chroococcum</i> . . . . .	157
— — —, Distribution of, in Pedal Ganglion of <i>Lamellidens marginalis</i> . . . . .	291	Band Spectrum of BF Molecule, Identification of 1-0 and 1-2 Bands . . . . .	655
— — —, Intra-Cellular Localisation in Dog's Ovary . . . . .	639	Barbital Sodium, Effect of, on Male Reproductive Organs of Albino Rats . . . . .	584
<i>Alternaria</i> Blight of Pyrethrum . . . . .	295	Barley, Covered Smut of; Abnormal Symptoms Caused by <i>Ustilago hordsi</i> . . . . .	699
— — —, Stimulating Effects of Cellular Components of . . . . .	152	Basal Meristem in the Ovules of <i>Cabomba caroliniana</i> . . . . .	463
<i>Amaranthus dubius</i> , Origin of . . . . .	370	Bastite, Occurrence of . . . . .	637
— — —, Mosaic Disease of . . . . .	645	B-Chromosomes in the Genus <i>Clematis</i> . . . . .	670

PAGE		PAGE		PAGE
118	Beryllium Chloride, Activity Coefficients of .. .. .	284	Chlorophyll Content of Groundnut Leaves, Diurnal Variation in ..	218
118	Biochemical Changes in Mouse Blood and Liver following <i>Staphylococcus aureus</i> Infection .. .. .	142	Chlorosulphonation of Isatins ..	508
289	Biogenesis of Chemical Components of <i>Rocella montagnei</i> .. .. .	375	Chromatic Responses of the Retina ..	233
405	Bis-Tetramethyl Ammonium Tetrachloro Iron (II) Complex .. .. .	245	— Sensations at High Luminosities ..	135
187	Blast Disease of Rice, Physiologic Specialization of <i>Piricularia oryzae</i> .. .. .	307	Chromatographic Examination of Sugars in the Tuber of <i>Pueraria tuberosa</i> ..	249
305	Blue, Indigo and Violet in the Spectrum .. .. .	167	— Purification of Potassium Thiocarbonate .. .. .	661
635	Bombay Rats, Studies on .. .. .	540	Chromic Acid Oxidation of Alcohols, Effect of Complexing Agents ..	662
90	Books Received 34, 66, 100, 132, 164, 196, 229, 266, 300, 329, 360, 389, 417, 444, 469, 494, 519, 546, 571, 596, 624, 677, 705		Chromosome Diminution in Roots of <i>Ala vera</i> .. .. .	25
607			—, the Limiting Membrane of ..	272
323			—s of <i>Morus indica</i> .. .. .	539
225			— — the Scorpion <i>Buthus tamulus</i> ..	54
323			— Number (Basic) in <i>Eragrostis</i> ..	384
377			— —s in Acanthaceae .. .. .	295
294			Chrysanthemum, a Radiation-Induced Mutant of .. .. .	58
347			Chthamalus Surviving Below Sand Level, an Instance of .. .. .	583
451			<i>Cleistanthus collinus</i> , Chemical Examination of Fruits of .. .. .	179
	<i>Borellia gallinarum</i> , Occurrence of Antigenic Variation in .. .. .	183	Clemmensen Reduction of an $\alpha : \gamma$ Disubstituted $\beta$ -Ketoester ..	429
	Bromination of Acetoacetanilide .. .. .	560	Clonal Propagation of Mango through Cuttings .. .. .	434
	Buffer Amplifier in Conjunction with Galvanometer Recorders .. .. .	283	Closed Loop Patterns on Cadmium Single Crystals .. .. .	344
			Coals (Indian), Reflectance Study of ..	425
	CADMIUM Single Crystal Surfaces, Closed Loop Patterns .. .. .	344	Coal Petrology in Coke Studies, Theoretical Considerations on the Value of .. .. .	172
	Cambrian Fauna of Kashmir .. .. .	377	Coccidium <i>Eimeria christensent</i> , Occurrence of, in Goats in India ..	564
345	Capillaria nycticeiusi, a Rare Parasite from Nycticeius kuhlii .. .. .	641	Coconut Palms Affected by Root Wilt Disease, Free Amino-Acids in ..	636
211	Carbohydrate Content in Bay of Bengal Surface Waters .. .. .	576	— Water, Enzyme Activity of, and Agricultural Practices .. .. .	685
562	Carnegie Institution of Washington—Year Book 63 .. .. .	399	Cold Waves in India .. .. .	401
511	Carotenoid Pigments .. .. .	103	Coleochaete nitellarum a New Addition to the Indian Flora .. ..	567
612	Cassia tora, Chemical Investigations on Catalase in Activated Sludge .. ..	481	Colours of Flowers .. .. .	445
609	— — Corn and Soybean Leaf Tissues ..	46	— — Natural and Synthetic Gemstones ..	521
220	Cell-Division in the Archeporsial Cell in <i>Marchantia palmata</i> .. .. .	485	— — the Roses .. .. .	471
133	Cellulolytic (C) Enzyme, Production of, by <i>Alternaria tenuis</i> .. .. .	223	— — thin Films .. .. .	573
330	Centrosymmetry of a Non-Centrosymmetric Structure, on the Degree of <i>Cerrospora pluchea-tomentosae</i> on <i>P. tomentosa</i> .. .. .	529	Colour Tests, Chemistry of, for Chalkones, Flavanones and Aurones ..	681
157	Chemical Components of the <i>Lobaria</i> Lichens .. .. .	154	Complexes of Cupric ion .. .. .	145
655	— Composition of <i>Cressa cretica</i> and <i>Salicornia brachiata</i> .. .. .	247	Complex Formation Between Uranyl Ions and $\beta$ -Resorcylic Acid ..	244
584	— — — the Flesh of the Turtle <i>Chelone mydas</i> .. .. .	695	Composoporgon iyengarii from Gujarat ..	644
699	Chemistry of <i>Terminalis</i> Species .. ..	177	Condensation of o-Phenylenediamine with Acetonyl Acetone .. .. .	403
463	— — the Colour Tests for Chalkones, Flavanones and Aurones .. .. .	681		
637	Chikungunya Virus from <i>Aedes aegypti</i> , Isolation of .. .. .	480, 579		
670				

	PAGE		PAGE
Condensation of Tolylene-2: 4-Diamine with Benzoin .. .. .	533	EARTH's Equator, the Curve of .. ..	311
Conference on Nuclear Magnetic Resonance .. .. .	305	Eco-Physiological Studies on Arid Zone Plants .. .. .	612
Conidial Morphology of <i>Pestalotiopsis darjeelingensis</i> in Culture .. ..	487	Effect of Gibberellic Acid on Endogenous Auxins in Plants .. .. .	186
Coriander, a New Disease of, Caused by <i>Colletotrichum capsici</i> .. ..	89	Elastic Scattering of Gamma Rays, Effects of L-Shell Electrons on the Polarization of .. .. .	45
Corn, a New Type found in .. ..	261	— — — 1.12 MeV Gamma Rays from Platinum and Tantalum .. ..	581
<i>Corydiella corydi</i> , a New Male Nematode from Spotted Roach .. ..	292	Electronic Structure of and bis (Pyridine) Cobalt (II) Chloride by X-Ray Method .. .. .	556
Cowpea, Differential Response of Two Varieties of, to Ga and IAA .. ..	615	Elementary Particles, the Dynamical Origin of Symmetry of .. ..	202
<i>Criconemoides georgii</i> from India .. ..	667	Elephant Tusk, Unusual Finding of Lead in .. .. .	45
Crystalline Principles of Euphorbiaceae —Part III .. .. .	432	<i>Eleusine coracana</i> , A Naturally Occurring Dicertric Chromosome in .. ..	153
Crystal Structure of L(+) Cysteine Hydrochloride Monohydrate .. ..	449	<i>Eleutheranthera</i> Poit., A Compositae Genus New to Indian Flora .. ..	411
— — — L-Valine Hydrochloride Monohydrate .. .. .	628	<i>Ellisiella caudata</i> , A New Record to India .. ..	88
— Symmetry and Magnetic Properties .. ..	72	Embryology of <i>Gliricidia sepium</i> .. ..	185
Culture of Two Schizogregarines .. ..	125	— — <i>Holboellia latifolia</i> .. ..	28
Curve of Earth's Equator .. ..	311	— — Linaceae .. .. .	92
<i>Curvularia trifolii</i> , Occurrence of, on Khas-Vetiveria zizanioides .. ..	668	— — <i>Utricularia graminifolia</i> .. ..	355
Cytogenetical Studies in <i>Psidium chinense</i> .. .. .	536	Embryo-Sac and Embryogeny in <i>Cuscuta lupuliformis</i> .. .. .	671
Cytological Effect of Gibberellic Acid .. ..	699	Emission Spectra of Chlorobenzaldehydes .. ..	175
— — — Hydroxylamine on Salivary Gland Chromosomes of <i>Drosophila</i> .. ..	58	Endocrinology of Invertebrates (International Symposium) .. ..	476
DECAY of Cr <sup>51</sup> .. .. .	504	Energy Levels of Mo (92) with Different Potentials .. ..	427
<i>Deightonella</i> , A New Species of, on <i>Arthraxon lancifolius</i> .. ..	122	Enovid, Effect of, on the Lipid Constituents of Rhesus Monkey Pituitary .. ..	212
Development of Female Gametophyte in <i>Euphorbia pilosa</i> .. ..	611	Enzyme Activity of Coconut Water, Influence of Some Agricultural Practices on .. .. .	685
Dielectric Constants of 2-Methoxy 4-Nitro and 5-Nitro Anilines .. ..	455	<i>Epicoecum nigrum</i> on Stored Fruits .. ..	25
— Properties of Some Liquids at 8 mm. Wavelength .. .. .	343	Epidote Twin from Epidote-Biotite Schist of Sydapuram .. ..	86
7, 4"-Dimethyl-tectorigenin, Occurrence of, in the Flowers of <i>Dalbergia sissoo</i> .. ..	431	<i>Eragrostis</i> , Basic Chromosome Number in .. .. .	384
<i>Dipterocarpozylon tertiarum</i> , A New fossil Wood of Burma .. ..	254	<i>Erysiphe graminis</i> Var. <i>Triticci</i> , Occurrence of, in Bombay .. ..	89
<i>Disporum leschenaultianum</i> , Cytogeographic Studies on .. ..	255	E.S.R. Spectrum of Gamma Irradiated Sodium Tetrathionate .. ..	147
Dissociation of Carbon Dioxide on a Supported Iron Catalyst .. ..	505	Estuary, Gautami-Godavari, Mixing and Circulation in .. .. .	631
Distribution of Some Plants along Midnapur Coast .. .. .	589	$\beta$ -Eudesmol and Pterocarpol in the Heartwoods of <i>Pterocarpus indicus</i> and <i>P. macrocarpus</i> .. ..	115
<i>Dolichos lablab</i> , A New Pycnidial Host of <i>Macrophomina phaseoli</i> .. ..	515	Euphorbiaceae, the Crystalline Principles of .. .. .	608
Domain Size and Stacking Fault Probabilities, Evaluation of .. ..	607	<i>Euphorbia pilosa</i> , Development of Female Gametophyte in .. ..	611
Dynamical Origin of Symmetry of Elementary Particles .. ..	202		



PAGE	PAGE
Evaluation of Domain Size and Stacking Fault Probabilities in Hexagonal Close-Packed Crystals .. ..	607
Evaporation, Estimation of, from Related Meteorological Data ..	499
Experimental Manipulation of Genes .. ..	108
"Explosion Brecciae", Occurrence of, in Himachal Pradesh .. ..	315
FAUNAL Discoveries in Himalayan Pre-carboniferous Rocks .. ..	439
Female Gametophyte and Endosperm in <i>Lagenandra ovata</i> .. ..	614
Floral Morphology and Chromosomes in <i>Bursera delpechiana</i> .. ..	514
— Mutant in Pea .. ..	537
— Pigments and the Perception of Colour .. ..	495
Fluorite Deposits at Chandidongri, Relation of Basic Dikes to .. ..	215
Foliar Sclereids of <i>Aegialitis rotundifolia</i> .. ..	538
— in <i>Fagraea</i> , Studies on .. ..	509
Follicolous Fungi, Three New .. ..	257
Forbidden M1 Transition of Pm-147 .. ..	606
Fossil Frog, A New Species from the Intertrappean Beds, Bombay .. ..	182
— Sclereids, Notes on Some .. ..	642
— Shark Teeth from the Bagh Beds of Amba Dongar Area .. ..	289
— Wood of Dipterocarpaceae from Tertiary of Burma .. ..	181
— — — <i>Lagerstroemia</i> from Tertiary of Burma .. ..	484
Fourier Coefficients of the Modular Invariant $j(\tau)$ .. ..	208
Fovea, the Structure of .. ..	37
Freak Dwarf Mutant Induced by Fast Neutron in Rice .. ..	222
Free Amino-Acids in Coconut Palms Affected by Root Wilt Disease .. ..	636
— — — and Carotenes in the Leaves of <i>Moringa oleifera</i> .. ..	374
— — — of Flowers of <i>Cucurbita maxima</i> .. ..	583
— Fatty Acids, Use of Isopropanol in the Estimation of .. ..	405
— Propionic Acid in the Skeletal Muscle of Elastobranchs .. ..	586
Freshwater Carps as Second Intermediate Host of Opisthorchid Fluke .. ..	378
— Medusa from India, A New Record .. ..	665
Fungal Flora of Two Soils at Tirupati .. ..	489
Further Studies of the Retinal Responses .. ..	269
GALL Induction in <i>Cynodon dactylon</i> by <i>Ustilago</i> .. ..	159
Gamma Radiation, Effect of, on Eggs of <i>Haemonchus contortus</i> .. ..	380
— -Rays, Absolute Photoelectric Cross-Sections of .. ..	427
Gemstones, Colours of Natural and Synthetic .. ..	521
Genome Constitution of <i>Oryza malampuzhensis</i> .. ..	128
Germination of Spores within the Sporangium of <i>Antrophyum plantagineum</i> .. ..	647
Glauconitic Mudstone from "Raghavapuram Shale" .. ..	351
Glauconite, Occurrence of, in Sub-surface Cores .. ..	180
<i>Globorotalia</i> in Niniyur Stage, Occurrence of .. ..	119
<i>Globotruncana</i> in Ariyalur Stage of Trichinopoly Cretaceous .. ..	150
<i>Glæocystis ampla</i> Grown in Unialgal Culture .. ..	124
Glutamic and Aspartic Acid Levels of Wheat Leaves Treated with Benzimidazole .. ..	611
C-Glycosides of <i>Parkinsonia aculeata</i> .. ..	634
Godel's Universe, A Note on .. ..	175
Graft Co-polymerisation by Chain Transfer .. ..	176
Gravimetric Determination of Barium as Selenite .. ..	504
Graywackes in the Pre-cambrians of Rajasthan .. ..	287
Green Colour of Vegetation .. ..	419
<i>Griffithides</i> from the Fenestella Series of Kashmir .. ..	217
<i>Gyrothrix circinata</i> , A New Record for India .. ..	90
<i>Haplomitrium hookeri</i> , Discovery of, in Asiatic Flora .. ..	618
Heavy Mineral Investigations in Nahan Series in Himachal Pradesh .. ..	340
<i>Heteropogon contortus</i> , A New Chromosome Race in .. ..	190
<i>Heterothrix ulotrichoides</i> , Loop-Formation in .. ..	320
High Energy Physics .. ..	4
Hill-Piper Diagram for Representing Water Analysis Data .. ..	313
Himalayan Foothills, A Note on the Structure of .. ..	482
Hopper Growth in Bismuth .. ..	146
Hydrogenative Polymerization of Acetylene over Palladium Catalyst .. ..	508

	PAGE		PAGE
8-Hydroxy Quinoline and Derivatives as Redox Indicators .. ..	148	JAPANESE Encephalitis (JE) Virus, Inhibitory Effects of, up on Tumour Production .. ..	461
Hypersonic Flow Past a Wedge, Effect of Dissociation on .. ..	208	KARYOLOGY of <i>Chara zeylanica</i> ..	293
<i>Hypoxylon truncatum</i> Miller Var. <i>Pouceanum</i> from Mysore .. ..	192	Katni Bauxite, Origin of .. ..	214
Hysteresis Loops of Magnetic Minerals and Rocks .. ..	338	Kinetic Investigation of the Reaction between Dimethyl Sulphonium Methyliide and Benzaldehydes ..	404
<i>Hysterium indicum</i> from India ..	191	—s of Bromination of Aromatic Compounds .. ..	429
ICE Crystal Markings in the Silicified Shale Formation, Kaimur Group, Vindhyan System .. ..	664	Kyasanur Forest Disease (KFD) Virus, Inhibitory Effects of, upon Tumour Production .. ..	461
Ilmenite from East Coast Beach Sands .. ..	286	LACCADIVE Island, Lima and Phosphate Deposits in .. ..	646
Indelible Clues to Stomatal Development in Epidermis of Plants .. ..	588	<i>Lacellinopsis</i> , A New Species of ..	26
Indian Academy of Sciences: 30th Annual Meeting .. ..	43	Lac Hosts, <i>Zizyphus jujuba</i> and <i>Z. xylophora</i> , Chemical Investigation of ..	344
<i>Indophyton</i> —A New Stromatolite Form Genus .. ..	84	<i>Lagenandra ovata</i> , Female Gametophyte and Endosperm in .. ..	614
Induced Auto-Tetraploid in <i>Coffea canephora</i> .. ..	90	Lancet Fishes of the Genus <i>Alepisaurus</i> from Indian Ocean .. ..	51
Inducing Aerial Rooting in Tobacco by Naphthalene Acetic Acid Spray ..	617	Langerhan's Cell, Identification from Melanocyte in Human Skin ..	406
Inheritance of Certain Characters in Rice .. ..	189	Lanthanides, Separation of, Using Phthalate Buffer .. ..	428
Inhibition of Gibberellin-Induced Leaf-sheath Elongation of Rice by Auxin — — Ovulation and Spawning by Adrenalectomy in Skipper Frog ..	316	Latex, the Proteins of Some Plant ..	212
Inhibitory Effects of JE and KFD Viruses upon Tumour Production by <i>Rous sarcoma</i> Virus .. ..	461	Leaching Saline, Alkaline Soils ..	349
— Effect of Puromycin on Adaptation of Guinea-Pig to Aerosols of Acetylcholine and Histamine .. ..	451	Leaf-Spot Disease of Tobacco ..	542
Insulin, Effect of, on the Free Amino-Acids of Foot and Blood of <i>Meretrix casta</i> .. ..	460	— — Fungi, Two New .. ..	565
Intramolecular Hydrogen Bonding in 5-Hydroxy Chromones .. ..	116	Leeches as Endoparasites in Centipedes Lepromatous Leprosy, Observations on Micro-organism Isolated from ..	314
Internal Conversion Process and Nuclear Structure (International Conference) ..	453	Lichens, Chemical Components of <i>Lobaria</i> .. ..	9
International Conference on Magnetism — Hydrological Decade .. ..	170	Lifetime of the 396 KeV Level of Lu-175 .. ..	281
Intra-Cellular Localisation of Alkaline Phosphatase in Dogs Ovary .. ..	639	Light and Ionisation Curves of Meteors ..	421
<i>In vitro</i> Cultivation of <i>Diachea splendens</i> .. ..	601	Lime and Phosphate Deposits in Laccadive Islands .. ..	646
Ionospheric Irregularities, Angle of Arrival of Downcoming Radio-Waves ..	114	Limiting Membrane of the Chromosome ..	278
Isolation of Rapanone from <i>Ardisia macrocarpa</i> .. ..	16	Liquid Scintillation Counting of S (35) Labelled Hydrogen Sulphide ..	15
— — Rutin from Flowers of <i>Cleome chelidonii</i> .. ..	246	Location of Visual Pigments in the Retina .. ..	303
Isoparorchid Infection in Fish Species ..	586	Lunar Crater, Origin of .. ..	502
		Loop-Formation in <i>Heterothrix ulotrichoides</i> .. ..	320
		Lower Gondwana Basin between Nagpur and Kamptee, A New .. ..	610
		Lucerne Leaves, Growth Factor in ..	285
		— Seed Infesting Chalcidoids .. ..	225
		Luteolin as a Characteristic Flavone of <i>Acanthaceae</i> .. ..	79

- L-Valine Hydrochloride Monohydrate, Crystal Structure of .. 628
- Macrophomina phaseoli, Occurrence of, on Garlic Bulbs .. 293
- Magnetic Hysteresis of Heat-Treated Basalts .. 214
- Manganese Ores, Occurrence of, in Atilabad .. 404
- Mangrove Seedlings, Cultivation of, Away from Their Natural Habitat .. 429
- Masking of Colours .. 391
- Mass Quantisation of Half-Spin Particles Mean Amplitudes of Vibrations in Nitryl Fluoride and Chloride .. 553
- — — — — Vibration, Pyramidal  $XYZ_2$  Type Molecules .. 559
- — — — —  $XY_3Z$  Type of Silicon Compounds .. 144
- Megasporogenesis in Peperomia, an Instance of Abnormal .. 373
- Mercaptopurine and Urethane, Effect of, on Alkaline Phosphatase Activity of Rat Tissues .. 57
- Metabolic Response to Osmotic Stress in Poikilotherms .. 685
- Metabolism of *Puntius sophore*, Effects of Starvation on .. 351
- Meteors, Light and Ionisation Curves of Micro Determination of Copper in Biomaterials by Neutron Activation Analysis .. 563
- Microflora from the *Dicrodium*-bearing Beds of Sidhi District .. 421
- Mixing and Circulation in Gautami-Godavari Estuary .. 478
- Monochaetia turgida*, A New Record for India .. 459
- Monsoon Theories .. 631
- Moranocladus oldhami*, Observations on Morphology and Ontogeny of the Ethereal Oil Cells in *Schisandra michaux.* .. 219
- Mosaic Disease of *Amaranthus*—A New Record for India .. 375
- NATURAL Products Chemistry, Neighbouring Group Participation in .. 215
- Neighbouring Group Participation in Natural Products Chemistry .. 238
- Neodymium Filter, Observations with a Neolithic Hammer-Head from Kashmir .. 599
- New Physiology of Vision: 1, 37, 69, 103, 135, 167, 199, 233, 269, 303, 333, 363, 391, 419, 445, 471, 495, 521, 547, 573, 599; 625
- Nitrate and Nitrite Nitrogen in Sugar-Cane Juice .. 513
- o-Nitrocinnamaldehyde Condensation: Formation of Oxazolones .. 455
- — — — — Nitrogen Content of the Lamellibranch *Donax cuneatus* .. 116
- Nodulation of Arid Zone Legumes .. 217
- Nodulisporium, A New Species of .. 21
- NQR Frequencies in Copper Salts .. 353
- Nuclear Magnetic Resonance Conferences — Quadrupole Resonance of Br (79) and Br (81) in Solids .. 607
- — — — — Shell Numbers in Light Elements .. 305
- — — — — Structure Effects on Internal Conversion Coefficients .. 113, 244
- Nucleolus in the Genus *Coix* .. 209
- Nutrient Concentration in Rice Plant, Effect of Soil Moisture, Nitrogen and Phosphorus Supply on .. 524
- OBSERVATIONS with a Neodymium Filter Occurrence of Bastite .. 599
- — — — — Leucopelargonidin in the Roots of *Casearia esculenta* .. 637
- Odontotermes redemanni, Structure of the Male Reproduction Organs of .. 634
- Oligosaccharide in Mango Fruits under Pathogenesis .. 435
- Onion Root Gibberellins .. 465
- Opisthorchiid Fluke Parasitic in Silurid Fishes, Freshwater Carps as Intermediate Host .. 28
- Oreaster (*Pentaceros*) Hedemanni, Reproductive Cycle of .. 378
- Origin of *Amaranthus dubius* .. 87
- Oryza, African Tetraploid Species of *Oryza malampuzhaensis*, Genome Constitution of .. 370
- Ovule and Seed of *Sechium edule*—A Reinvestigation .. 696
- Oxalic Acid Synthesis by *Sclerotium rolfsii* .. 128
- Oxidation of n-Butanol by Ceriic Ions in Aqueous Solution .. 458
- — — — — Thioglycolic Acid using Chloramine-T .. 282
- Ozone, Atmospheric, Vertical Distribution of, by a Chemical Ozonesonde .. 530
- PADDY Varieties, Response of, to Blue-Green Algae .. 39
- Pahudioxylon deomalense*, A New Fossil Wood from Tertiary of Eastern India .. 188
- Palmocarpus Lesquereux* and Its Synonymy with *P. miquel* .. 433

	PAGE		PAGE
<i>Palmozylon scottii</i> : Revised Name for <i>P. sahnii</i> Menon ..	459	Physiology of Vision, The New: Chapter XX—Superposition and Masking of Colours ..	391
Paramagnetic Resonance in Gamma Irradiated Thiosulphate at 77° K ..	691	-----: Chapter XXI—The Green Colour of Vegetation ..	419
<i>Parastigmatea syzygii</i> , A New Ascomycete ..	93	-----: Chapter XXII—The Colours of Flowers ..	445
<i>Parkinsonia aculeata</i> , C-Glycosides of Pathology of <i>Stephanofilaria assamensis</i> in cattle ..	634	-----: Chapter XXIII—The Colours of Roses ..	471
Penicillin Salts, Stability of ..	410	-----: Chapter XXIV—Floral Pigments and the Perception of Colour ..	495
Perception of Colour and the Trichromatic Hypothesis ..	309	-----: Chapter XXV—The Colours of Natural and Synthetic Gemstones ..	521
— — Polarized Light ..	1	-----: Chapter XXVI—Structural Colours ..	547
Peroxide Activity and Iron Deficiency in Soy bean Leaf Tissue ..	347	-----: Chapter XXVII—The Colours of Thin Films ..	573
Phosphorus Loss by Leaching Rice Plant Leaves ..	350	-----: Chapter XXVIII—Observations with a Neodymium Filter ..	599
Photoelectric Cross-Section of Gamma Rays ..	372	-----: Chapter XXIX—Reproduction of Colour ..	625
Photo-Mechanical Reproduction of Colour ..	653	-----: Chapter XXX—The Photo-Mechanical Reproduction of Colour ..	653
Photometric Determination of Silicon by Molybdenum Blue, Influence of Temperature ..	561	-----: Chapter XXXI—The Integration of Colour by the Retina ..	679
Physico-Chemical Studies on Stability of Penicillin Salts ..	309	Plant Indicator for Zinc Mineralisation ..	48
Physiological Specialization of <i>Piricularia oryzae</i> , the Causal Organism of Blast Disease in Rice ..	307	Pogonophora from the Indian Seas ..	367
Planktonic Blue-Green Algae, an Unusual Swarming of ..	95	Poikilitic Olivine Dolorite dyke in Mysore State ..	252
Physiology of Vision, The New: Chapter VIII—The Perception of Polarised Light ..	1	Polarized Light, Perception of ..	1
-----: Chapter IX—The Structure of the Fovea ..	37	<i>Polistes harabeus</i> , Distribution of Alkaline Phosphatase in the Compound Eye of ..	184
-----: Chapter X—The Major Visual Pigments ..	69	Pollen Morphology of Two Species of Acanthaceae ..	319
-----: Chapter XI—The Carotenoid Pigments ..	103	— — Indian Podostemaceae ..	381
-----: Chapter XII—Chromatic Sensations at High Luminosities ..	135	— Sterility in Grapes, Chemical Induction of ..	411
-----: Chapter XIII—Blue, Indigo and Violet in the Spectrum ..	167	Polypodiaceae, New Combinations in ..	127
-----: Chapter XIV—The Red End of the Spectrum ..	199	<i>Poria</i> found in Association with "Branch-Canker" of Tea in North-East India ..	538
-----: Chapter XV—The Chromatic Responses of the Retina ..	233	Potassium Thiocarbonate (PTC) as a Masking Agent in Analytical Reactions ..	582, 661
-----: Chapter XVI—Further Studies of the Retinal Responses ..	269	— — Reagent in Identification of Cu(II) and Cd(II) ..	78
-----: Chapter XVII—Location of Visual Pigments in the Retina ..	303	Potentiometric Study of Vanadium (IV) and Potassium Ferrocyanide Reaction ..	245
-----: Chapter XVIII—The Visual Synthesis of Colour ..	333	<i>Prathigada zizyphi</i> sp. nov. ..	60
-----: Chapter XIX—Perception of Colour and the Trichromatic Hypothesis ..	363	Prawn Moulting in Hypotonic Sea-Water, Changes in Volume of ..	53
		Precipitation of Copper-Phenyl Pyruvic Acid Oxime Complex ..	17
		Proteins of Some Plant Latex ..	212



Proton Magnetic Resonance Spectra of Pyridine N-Oxide .. .. .	555	Rosen-Desirant Ultra-violet Bands of Sulphur .. .. .	454
Protopectinase, Production of, by <i>Fusarium vasinfectum</i> .. .. .	558	Rotational Analysis of BiO Ultra-violet Bands .. .. .	660
Prudomestine, Synthesis of .. .. .	210		
p-Toluene Sulfonic Acid as a Chromogenic Reagent for Indole Derivatives .. .. .	700	SALICYLALDEHYDE as Chelating and Extracting Agent .. .. .	80
<i>Pueraria tuberosa</i> , Sugars in .. .. .	249	Salinity Tolerance and Chloride Ion Regulation in <i>Tilapia mossambica</i> .. .. .	694
Pyrophyllite, Occurrence of, in Jhansi District .. .. .	483	<i>Schismatorhynchus</i> , Occurrence of a New Species in the River Ghaggar (Punjab) .. .. .	640
		Science Notes and News: 34, 67, 100, 133, 165, 197, 230, 267, 301, 330, 361, 390, 418, 470, 597, 677 .. .. .	
QUADRIpartite Nature of Chromosome at Meiotic Stages of <i>Alae vera</i> .. .. .	187	<i>Scirtothrips</i> , A New, on Coffee .. .. .	23
Quantitative Separation of Cu(II) and Cr(VI) by Solvent Extraction .. .. .	433	Sclereids, Notes on Some Fossil .. .. .	642
Quantum Chemistry, Solid State Physics and Quantum Biology .. .. .	111	— in the Rind of a Citrus Hybrid .. .. .	487
Quilon Limestone Found at Kidangayara .. .. .	693	—, Stipular, in <i>Rhizophora mucronata</i> .. .. .	155
		<i>Scopulariopsis</i> , A New Species of .. .. .	222
RADIOCARBON Activity, Measurement of Ages of Archaeological Samples .. .. .	394	Scorpion <i>Heterometrus scaber</i> , Investigation on Hæmolymp .. .. .	663
— Dates of Neolithic and Historic Samples .. .. .	42	Scotozous Dobson (Chiroptera: Vesperilionidae) .. .. .	640
Raman and Infra-red Spectra of 2-Amino Methyl Pyridines .. .. .	687	Sea-Level, a Method of Obtaining the Non-Astronomical .. .. .	532
<i>Randia uliginosa</i> , Chemical Examination of .. .. .	505	Seasonal Variations in the Zonal and Meridional Circulation over India .. .. .	272
Rapakivi Granite, Occurrence of .. .. .	19	<i>Sechium edule</i> , Ovule and Seed of, A Reinvestigation .. .. .	696
Ratticides, A Note on the Trial of Two <i>Rauwolfia serpentina</i> , Pollen Grains of a Gigantic Plant of .. .. .	256	Secondary Sporidia in <i>Hemileia vastatrix</i> .. .. .	668
Red End of the Spectrum .. .. .	199	Sedimentation of Serum Proteins by Slow Freezing .. .. .	380
Reduction of Acid Permanganate by Methanol and Ethanol .. .. .	14	Serum Proteins, Sedimentation by Slow Freezing .. .. .	380
Reflectance Study of Some Indian Coals .. .. .	425	Shillong Series .. .. .	252
Relationship between the Gwalior and Jahazpur Formations in Rajasthan .. .. .	693	Silver Mines of Uchich (Kulu) Kangra Dist. .. .. .	638
Reproduction of Colour .. .. .	625	<i>Sordaria humana</i> , A New Record to India .. .. .	322
Retinal Responses, Further Studies of .. .. .	269	—, A New Species of .. .. .	354
Reviews and Notices of Books: 30, 62, 96, 129, 161, 193, 226, 263, 296, 325, 357, 385, 413, 440, 467, 491, 516, 543, 568, 593, 620, 648, 673, 701 .. .. .		Source Rocks .. .. .	535
<i>Rhacomitrium</i> Brid. (The Genus), in Western Himalayas .. .. .	323	Southwest Monsoon, Review of the Existing Theories .. .. .	657
<i>Riccia grollei</i> Udar Nom. Nov.—A Correction for <i>Riccia tuberculata</i> .. .. .	126	Spectrophotometric Determination of Zirconium with 7, 8, 3', 4'-Tetrahydroxy Flavonol .. .. .	456
Rice Mutant, Freak Dwarf, Induced by Fast Neutron, .. .. .	222	<i>Sporothrix</i> , A New Species of .. .. .	318
— Plant Leaves, Loss of Phosphorus from, by Leaching through Water .. .. .		<i>Staphylococcus aureus</i> Infection, Biochemical Changes .. .. .	142
Ripple Marks in the Champaner Aravalli Quartzite .. .. .	407	Stolon Rot of Japanese Mint .. .. .	156
RNA-ase Activity under Zn and P Deficiencies in Citrus Seedlings .. .. .	61	Stomatal Ontogeny in Some Onagraceae and <i>Trapa</i> .. .. .	260
		Stratigraphic Position of the Banded Gneissic Complex of Rajasthan .. .. .	483
		Stromatolites in Bhagawanpura Limestones .. .. .	82



	PAGE		PAGE
Structural Colours .. ..	547	Ultra-violet Emission Spectra of Xenon and Krypton Fluorides .. ..	75
Structure of the Fovea .. ..	37	Upwelling Off the East Coast of India .. ..	121
Superposition and Masking of Colours .. ..	391	Uranyl-2-Hydroxy, 3-Naphthoic Acid Complex, Composition and Stability .. ..	312
Surface Area of Kaolinite and Bentonite Clays as Affected by Particle Size Distribution .. ..	592	Constant of .. ..	312
Susceptibility of <i>Macaca mulatta</i> to Infection with <i>Schistosoma incognitum</i> .. ..	49	<i>Vaginicolid</i> Species, Occurrence of, from Chittoor .. ..	151
Symmetry of Elementary Particles, the Dynamical Origin of .. ..	202	Vascular Anatomy of Humiriaceae .. ..	383
Synthesis of ( $\pm$ ) $\alpha$ -Curcumene and Related Compounds .. ..	534	Verticillium Wilt of Pyrethrum in Mysore .. ..	513
— — Dehydroelliptone .. ..	534	Vibrational Spectra of Tertiary Amides .. ..	12
— — Dihydro Alloevodional and Its Methyl Ether .. ..	532	<i>Viscum articulatum</i> , Chemical Examination of .. ..	406
— — Lanceolatin-B .. ..	581	Vision, The New Physiology of : 1, 37, 69, 103, 135, 167, 199, 233, 269, 303, 333, 363, 391, 419, 445, 471, 495, 521, 547, 573, 599, 625, 653, 679	
— — ( $\pm$ ) Latifolin Dimethyl Ether .. ..	690	Visual Pigments, Location of, in the Retina .. ..	303
— — Some 2'-Oxygenated Flavones .. ..	398	— — The Major .. ..	60
— — Prudomestin .. ..	210	— Synthesis of Colour .. ..	333
— — 3, 7, 8, 4'-O-Tetramethyl Gossypetin .. ..	559	Vitamin C Content in Diploid and Tetraploid Capsicum .. ..	614
TEAK Oil from <i>Tectona grandis</i> .. ..	48	<i>Vitis trifolia</i> , A New Bacterial Leaf-Spot on .. ..	462
Tectonic Features in Sections of Guryul Ravine, Kashmir .. ..	118	Vivipary in an Inland Xerophyte .. ..	319
Temperature Effect on Sound Velocity Maximum in Dioxane-Water Mixtures .. ..	558	— — <i>Pinus wallichiana</i> .. ..	294
Terpenes, Studies in, Cyclisation of dl-Linalool .. ..	118	WATER Analysis Data, Modified Hill-Piper Diagram for .. ..	313
Thermal Etch Patterns on Silver Crystals .. ..	689	— Hyacinth, Thread Blight of .. ..	618
— Expansion of Ammonium Dihydrogen Arsenate .. ..	633	White Muscardine Fungus on Cabbage Semilooper .. ..	382
— Neutron Cross-Sections, Influence of the Nuclear Shells on .. ..	503	Wishart's Distribution, A Quick Method of Deriving .. ..	78
Thin Films, Colours of .. ..	573	— — : Addendum .. ..	311
— Layer Chromatography of Indoles .. ..	94	Wogonin, A Convenient Synthesis of .. ..	506
Thread Blight of Water Hyacinth .. ..	618	XANTHOMONAS, Notes on, Described from South India .. ..	436
Tobacco, Inducing Aerial Rooting in, by Naphthalene Acetic Acid Spray .. ..	617	X-Ray Analysis of Crystal Structure of L-Valine Hydrochloride Monohydrate .. ..	629
Tolerance of <i>Pinnotheres ostreum</i> to Salinity .. ..	22	— Induced Mutations in Cultivated Rice .. ..	55
Trichromatic Hypothesis and the Perception of Colour .. ..	363	YELLOW Mosaic of <i>Acalypha indica</i> .. ..	321
2', 3', 4'-Trihydroxychalcone as an Analytical Reagent .. ..	18	ZEEMAN Effect of NQR Line of p-Bromophenol .. ..	660
Triphenyl Phosphine, Carbonyl, Bromo Complexes of Rhodium .. ..	146	<i>Zizyphus</i> , Occurrence of, in the Lower Siwaliks Near Jawalamukhi .. ..	666
<i>Triplidocephala saccharivorella</i> Mats from India, First Record of .. ..	630	Zonal and Meridional Circulation over India, Seasonal Variations in .. ..	272
Truffle Disease in Mushroom Beds .. ..	488	Zoned Pyroxene in Olivine-Gabbro .. ..	83
UCHICH Silver Mines (Kulu), Kangra Dist. .. ..	638		
Ultra-violet Absorption Spectra of Fluoroanilines .. ..	479		

71

TV

GE

5

1

2

1

3

3

2

6

4

1

9

3

9

3

4

2

9

4

3

4

1

1

1

1

1

1

1

1

1

1

1

1

1

1